

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number  
**WO 2005/063832 A1**

(51) International Patent Classification<sup>7</sup>: C08F 110/06,  
4/654

(21) International Application Number:  
PCT/EP2004/013371

(22) International Filing Date:  
24 November 2004 (24.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
03104960.4 23 December 2003 (23.12.2003) EP  
60/534472 6 January 2004 (06.01.2004) EP

(71) Applicant (for all designated States except US): **BASELL  
POLIOLEFINE ITALIA S.P.A** [IT/IT]; Via Pergolesi 25,  
20124 Milano (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **COLLINA, Gianni**  
[IT/IT]; Via XXI Aprile 1945, 3, loc. Cassana, Ferra (IT).  
**EVANGELISTI, Daniele** [IT/IT]; Via del Campo, 28,  
44100 Ferrara (IT). **SACCHETTI, Mario** [IT/IT]; Via  
Cinzio Belletti 30, 44100 Ferrara (IT).

(74) Agent: **GIBERTI, Stefano**; Basell Poliolefine Italia  
S.P.A., Intellectual Property, P.le G. Donegani, 12, 44100  
Ferrara (IT).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,  
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.



WO 2005/063832 A1

(54) Title: MAGNESIUM DICHLORIDE-ETHANOL ADDUCTS AND ATALYST COMPONENTS OBTAINED THEREFROM

(57) Abstract: Adducts are provided comprising  $MgCl_2$ , ethanol and a Lewis base (LB), said compounds being present in molar ratios defined by the following formula  $MgCl_2 \cdot (EtOH)_n(LB)_p$ , in which n is from 2 to 6 and p has values satisfying the following equation  $p/(n+p) \leq 0.1$ . The said adducts can be used as precursor in the preparation of high activity ZN catalysts.